

# Freeform Search

**Database:** US Pre-Grant Publication Full-Text Database  
US Patents Full-Text Database  
US OCR Full-Text Database  
EPO Abstracts Database  
JPO Abstracts Database  
Derwent World Patents Index  
IBM Technical Disclosure Bulletins

**Term:** L30 and (breast or nipple)

**Display:** 100 Documents in **Display Format:** Starting with Number 1

**Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

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## Search History

**DATE:** Friday, May 13, 2005 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> <u>result</u> <u>set</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>			
<u>L31</u>	L30 and (breast or nipple)	4	<u>L31</u>
<u>L30</u>	L29 and (arc or arcuate or (radially with (bent or bending)))	41	<u>L30</u>
<u>L29</u>	L28 and (base or ring or loop or winding or coil or annulus ar annular\$2 or bottom or support)	226	<u>L29</u>
<u>L28</u>	L27 and (de-tun\$4 or detun\$4 or decoupl\$4 or de-coupl\$4)	226	<u>L28</u>
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<u>L26</u>	L25 or (current)	2846909	<u>L26</u>
<u>L25</u>	L24 and (diode or switch\$4 or impedance or induct\$4 or PIN)	712	<u>L25</u>
<u>L24</u>	L23 and (capacit\$4)	807	<u>L24</u>
<u>L23</u>	L22 and (conduct\$4 or rod)	1462	<u>L23</u>
<u>L22</u>	L21 and (phase or phasor or phas\$3 or rotat\$4)	2331	<u>L22</u>
<u>L21</u>	L20 and (quadrature)	2532	<u>L21</u>
<u>L20</u>	L19 and (channel\$4 or line or port)	53122	<u>L20</u>
<u>L19</u>	L1 and (mode or modal\$2 or configuration or arrangement)	89575	<u>L19</u>
<u>L18</u>	L15 and (PIN)	1	<u>L18</u>

<u>L17</u>	L9 and (breast or nipple)	4	<u>L17</u>
<u>L16</u>	L11 and (breast or nipple)	3	<u>L16</u>
<u>L15</u>	L14 and (breast or nipple)	2	<u>L15</u>
<u>L14</u>	L13 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (amplifier or amplifying or amplified or amplification or match\$4 or reactance or interfac\$3 or inter-fac\$3))	10	<u>L14</u>
<u>L13</u>	L12 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (channel\$4 or line))	15	<u>L13</u>
<u>L12</u>	L11 and ((plurality or "multi" or "more than one" or second or additional or another or first or primary or secondary) with (mode or modal\$2))	28	<u>L12</u>
<u>L11</u>	L10 and (amplifier or amplifying or amplified or amplification or match\$4 or reactance or interfac\$3 or inter-fac\$3)	36	<u>L11</u>
<u>L10</u>	L9 and (channel\$4 or line)	38	<u>L10</u>
<u>L9</u>	L8 and (de-tun\$4 or detun\$4 or decoupl\$4 or de-coupl\$4)	38	<u>L9</u>
<u>L8</u>	L7 and (diode or switch\$4 or impedance or induct\$4)	100	<u>L8</u>
<u>L7</u>	L6 and (capacit\$4)	104	<u>L7</u>
<u>L6</u>	L5 and (conduct\$4 or rod)	160	<u>L6</u>
<u>L5</u>	L4 and (arc or arcuate or (radially with (bent or bending)))	219	<u>L5</u>
<u>L4</u>	L3 and (phase or phasor or phas\$3)	1918	<u>L4</u>
<u>L3</u>	L2 and (quadrature)	2190	<u>L3</u>
<u>L2</u>	L1 and (mode or modal\$2)	54277	<u>L2</u>
<u>L1</u>	((magnetic adj resonance) or MRI or NMR)	202618	<u>L1</u>

END OF SEARCH HISTORY

# Hit List

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Search Results - Record(s) 1 through 41 of 41 returned.

☐ 1. Document ID: US 20050093909 A1

L30: Entry 1 of 41

File: PGPB

May 5, 2005

PGPUB-DOCUMENT-NUMBER: 20050093909

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050093909 A1

TITLE: Printing cartridge with switch array identification

PUBLICATION-DATE: May 5, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 347/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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☒ 2. Document ID: US 20050062472 A1

L30: Entry 2 of 41

File: PGPB

Mar 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050062472

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050062472 A1

TITLE: Mri tunable antenna and system

PUBLICATION-DATE: March 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bottomley, Paul Arthur	Columbia	MD	US	

US-CL-CURRENT: 324/317; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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☐ 3. Document ID: US 20050043718 A1

PGPUB-DOCUMENT-NUMBER: 20050043718  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20050043718 A1

TITLE: Robotic apparatus

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Madhani, Akhil Jiten	Glendale	CA	US	
Salisbury, J. Kenneth	Los Altos	CA	US	
Niemeyer, Gunter D.	Mountain View	CA	US	

US-CL-CURRENT: 606/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Drawings
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☐ 4. Document ID: US 20040210289 A1

L30: Entry 4 of 41

File: PGPB

Oct 21, 2004

PGPUB-DOCUMENT-NUMBER: 20040210289  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20040210289 A1

TITLE: Novel nanomagnetic particles

PUBLICATION-DATE: October 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wang, Xingwu	Wellsville	NY	US	
Greenwald, Howard J.	Rochester	NY	US	

US-CL-CURRENT: 607/116

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	PubC	Drawings
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☐ 5. Document ID: US 20030216639 A1

L30: Entry 5 of 41

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030216639  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030216639 A1

TITLE: Intrabody navigation system for medical applications

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilboa, Pinhas	Haifa		IL	
Blecher, Danny	Ramat Gan		IL	

US-CL-CURRENT: 600/424; 128/899, 324/207.17, 600/117, 600/423

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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☐ 6. Document ID: US 20030160721 A1

L30: Entry 6 of 41

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030160721

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030160721 A1

TITLE: Intrabody navigation system for medical applications

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilboa, Pinhas	Haifa		IL	
Blecher, Danny	Ramat Gan		IL	

US-CL-CURRENT: 342/450; 600/424

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Links	Drawings
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☐ 7. Document ID: US 20030071622 A1

L30: Entry 7 of 41

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030071622

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030071622 A1

TITLE: Coil Structure with tapered conductive members for improved homogeneity in MRI

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reisker, Theodore J.	Wexford	PA	US	
Monski, William J.	Sewickley	PA	US	
Reid, Eric D.	Farmington	PA	US	

Misic, George J.

Allison Park

PA

US

US-CL-CURRENT: 324/318; 324/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Image	Drawings
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☐ 8. Document ID: US 20020042571 A1

L30: Entry 8 of 41

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042571

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020042571 A1

TITLE: Navigable catheter

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilboa, Pinhas	Haifa		IL	
Blecher, Danny	Ramat Gan		IL	

US-CL-CURRENT: 600/429

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Image	Drawings
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☐ 9. Document ID: US 20020005719 A1

L30: Entry 9 of 41

File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020005719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020005719 A1

TITLE: Intrabody navigation and imaging system for medical applications

PUBLICATION-DATE: January 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilboa, Pinhas	Haifa		IL	
Blecher, Danny	Ramat Gan		IL	

US-CL-CURRENT: 324/309; 324/307, 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Image	Drawings
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☐ 10. Document ID: US 20010047133 A1

L30: Entry 10 of 41

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047133

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047133 A1

TITLE: Imaging device with magnetically permeable compensator

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Gilboa, Pinhas	Haifa		IL	
Blecher, Danny	Ramat Gan		IL	

US-CL-CURRENT: 600/429

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 11. Document ID: US 6833814 B2

L30: Entry 11 of 41

File: USPT

Dec 21, 2004

US-PAT-NO: 6833814

DOCUMENT-IDENTIFIER: US 6833814 B2

TITLE: Intrabody navigation system for medical applications

DATE-ISSUED: December 21, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gilboa, Pinhas	Haifa			IL
Blecher, Danny	Ramat Gan			IL

US-CL-CURRENT: 342/448; 342/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Index	Drawings
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☐ 12. Document ID: US 6831460 B2

L30: Entry 12 of 41

File: USPT

Dec 14, 2004

US-PAT-NO: 6831460

DOCUMENT-IDENTIFIER: US 6831460 B2

TITLE: Coil structure with tapered conductive members for improved homogeneity in MRI

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisker; Theodore J.	Wexford	PA	15090	
Monski; William J.	Sewickley	PA	15143	
Reid; Eric D.	Farmington	PA	15437	
Misic; George J.	Allison Park	PA	15101	

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Table	Drawings
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☐ 13. Document ID: US 6786896 B1

L30: Entry 13 of 41

File: USPT

Sep 7, 2004

US-PAT-NO: 6786896

DOCUMENT-IDENTIFIER: US 6786896 B1

TITLE: Robotic apparatus

DATE-ISSUED: September 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Madhani; Akhil Jiten	Glendale	CA		
Salisbury; J. Kenneth	Atherton	CA		
Niemeyer; Gunter D.	Mountain View	CA		

US-CL-CURRENT: 606/1; 128/898, 318/568.11, 318/568.16, 606/130, 700/247, 700/250, 700/253, 901/15, 901/9

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Table	Drawings
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☒ 14. Document ID: US 6608480 B1

L30: Entry 14 of 41

File: USPT

Aug 19, 2003

US-PAT-NO: 6608480

DOCUMENT-IDENTIFIER: US 6608480 B1

TITLE: RF coil for homogeneous quadrature transmit and multiple channel receive

DATE-ISSUED: August 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weyers; Daniel J.	Wauwatosa	WI		



US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 15. Document ID: US 6593884 B1

L30: Entry 15 of 41

File: USPT

Jul 15, 2003

US-PAT-NO: 6593884

DOCUMENT-IDENTIFIER: US 6593884 B1

TITLE: Intrabody navigation system for medical applications

DATE-ISSUED: July 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gilboa; Pinhas	Haifa			IL
Blecher; Danny	Ramat Gan			IL

US-CL-CURRENT: 342/448; 342/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 16. Document ID: US 6585763 B1

L30: Entry 16 of 41

File: USPT

Jul 1, 2003

US-PAT-NO: 6585763

DOCUMENT-IDENTIFIER: US 6585763 B1

TITLE: Implantable therapeutic device and method

DATE-ISSUED: July 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keilman; George W.	Woodinville	WA		
Cimochowski; George E.	Dallas	PA		

US-CL-CURRENT: 623/1.42; 604/891.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 17. Document ID: US 6549799 B2

L30: Entry 17 of 41

File: USPT

Apr 15, 2003

US-PAT-NO: 6549799

DOCUMENT-IDENTIFIER: US 6549799 B2

TITLE: Concurrent MRI of multiple objects

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bock; Nicholas A.	London			CA
Henkelman; R. Mark	Toronto			CA

US-CL-CURRENT: 600/422; 324/307, 324/309, 600/410, 600/411

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 18. Document ID: US 6362869 B1

L30: Entry 18 of 41

File: USPT

Mar 26, 2002

US-PAT-NO: 6362869

DOCUMENT-IDENTIFIER: US 6362869 B1

TITLE: Authentication system for camera print rolls

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 355/18; 347/101, 347/19, 977/DIG.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 19. Document ID: US 6344745 B1

L30: Entry 19 of 41

File: USPT

Feb 5, 2002

US-PAT-NO: 6344745

DOCUMENT-IDENTIFIER: US 6344745 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Tapered birdcage resonator for improved homogeneity in MRI

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Reisker; Theodore J.	Wexford	PA		
Monski; William J.	Sewickley	PA		

Reid; Eric D. Farmington PA  
Misic; George J. Allison Park PA

US-CL-CURRENT: 324/318; 600/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☒ 20. Document ID: US 6326789 B1

L30: Entry 20 of 41

File: USPT

Dec 4, 2001

US-PAT-NO: 6326789

DOCUMENT-IDENTIFIER: US 6326789 B1

TITLE: Receive coil and magnetic resonance imaging method and apparatus

DATE-ISSUED: December 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Masaru	Tokyo			JP
Sato; Kenji	Tokyo			JP
Morita; Kensaku	Tokyo			JP

US-CL-CURRENT: 324/318; 324/307, 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 21. Document ID: US 6315200 B1

L30: Entry 21 of 41

File: USPT

Nov 13, 2001

US-PAT-NO: 6315200

DOCUMENT-IDENTIFIER: US 6315200 B1

TITLE: Encoded data card reading system

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 235/454; 235/462.01, 235/462.1, 235/462.24, 235/470

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Drawings
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☐ 22. Document ID: US 6285189 B1

L30: Entry 22 of 41

File: USPT

Sep 4, 2001

US-PAT-NO: 6285189

DOCUMENT-IDENTIFIER: US 6285189 B1

TITLE: Millipede coils

DATE-ISSUED: September 4, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wong; Wai Ha	San Jose	CA		

US-CL-CURRENT: 324/318; 324/321, 335/299, 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 23. Document ID: US 6249121 B1

L30: Entry 23 of 41

File: USPT

Jun 19, 2001

US-PAT-NO: 6249121

DOCUMENT-IDENTIFIER: US 6249121 B1

TITLE: RF body coil

DATE-ISSUED: June 19, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Boskamp; Eddy B.	Menomonee Falls	WI		
Schenck; John F.	Clifton Park	NY		

US-CL-CURRENT: 324/318; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 24. Document ID: US 6231516 B1

L30: Entry 24 of 41

File: USPT

May 15, 2001

US-PAT-NO: 6231516

DOCUMENT-IDENTIFIER: US 6231516 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Endoluminal implant with therapeutic and diagnostic capability

DATE-ISSUED: May 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keilman; George W.	Woodinville	WA		
Cimochowski; George E.	Dallas	PA		

US-CL-CURRENT: 600/485; 600/481

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☒ 25. Document ID: US 6177797 B1

L30: Entry 25 of 41

File: USPT

Jan 23, 2001

US-PAT-NO: 6177797

DOCUMENT-IDENTIFIER: US 6177797 B1

TITLE: Radio-frequency coil and method for resonance/imaging analysis

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Heights	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 26. Document ID: US 6060882 A

L30: Entry 26 of 41

File: USPT

May 9, 2000

US-PAT-NO: 6060882

DOCUMENT-IDENTIFIER: US 6060882 A

TITLE: Low-inductance transverse litz foil coils

DATE-ISSUED: May 9, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Doty; F. David	Columbia	SC		

US-CL-CURRENT: 324/318; 324/319, 324/322, 600/421

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Index	Drawings
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☐ 27. Document ID: US 5967986 A

US-PAT-NO: 5967986

DOCUMENT-IDENTIFIER: US 5967986 A

TITLE: Endoluminal implant with fluid flow sensing capability

DATE-ISSUED: October 19, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cimochowski; George E.	Dallas	PA		
Keilman; George W.	Woodinville	WA		

US-CL-CURRENT: 600/454; 600/504, 600/505

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 28. Document ID: US 5602479 A

L30: Entry 28 of 41

File: USPT

Feb 11, 1997

US-PAT-NO: 5602479

DOCUMENT-IDENTIFIER: US 5602479 A

TITLE: Quadrature radio frequency coil for magnetic resonance imaging

DATE-ISSUED: February 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Hts.	OH		
Liu; Haiying	Euclid	OH		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☒ 29. Document ID: US 5578925 A

L30: Entry 29 of 41

File: USPT

Nov 26, 1996

US-PAT-NO: 5578925

DOCUMENT-IDENTIFIER: US 5578925 A

TITLE: Vertical field quadrature phased array coil system

DATE-ISSUED: November 26, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molyneaux; David A.	Mentor	OH		
Braum; William O.	Solon	OH		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 30. Document ID: US 5565779 A

L30: Entry 30 of 41

File: USPT

Oct 15, 1996

US-PAT-NO: 5565779

DOCUMENT-IDENTIFIER: US 5565779 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 15, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☒ 31. Document ID: US 5483158 A

L30: Entry 31 of 41

File: USPT

Jan 9, 1996

US-PAT-NO: 5483158

DOCUMENT-IDENTIFIER: US 5483158 A

TITLE: Method and apparatus for tuning MRI RF coils

DATE-ISSUED: January 9, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
van Heteren; John	San Francisco	CA		
Arakawa; Mitsuaki	Hillsborough	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings
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☐ 32. Document ID: US 5461314 A

L30: Entry 32 of 41

File: USPT

Oct 24, 1995

US-PAT-NO: 5461314

DOCUMENT-IDENTIFIER: US 5461314 A

TITLE: MRI front end apparatus and method of operation

DATE-ISSUED: October 24, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Arakawa; Mitsuaki	Hillsborough	CA		
Chang; Hsu	Fremont	CA		
Van Heteren; John	San Francisco	CA		

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Index
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☒ 33. Document ID: US 5445153 A

L30: Entry 33 of 41

File: USPT

Aug 29, 1995

US-PAT-NO: 5445153

DOCUMENT-IDENTIFIER: US 5445153 A

TITLE: Orthogonal RF coil for MRI apparatus

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugie; Masami	Kusatsu			JP
Asako; Hirofumi	Kyoto			JP

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	Drawings	Index
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☒ 34. Document ID: US 5361765 A

L30: Entry 34 of 41

File: USPT

Nov 8, 1994

US-PAT-NO: 5361765

DOCUMENT-IDENTIFIER: US 5361765 A

TITLE: Two-part quadrature NMR coil



DATE-ISSUED: November 8, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Herlihy; David J.	New Berlin	WI		
Boskamp; Eddy B.	Menomonee Falls	WI		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☒ 35. Document ID: US 5351688 A

L30: Entry 35 of 41

File: USPT

Oct 4, 1994

US-PAT-NO: 5351688

DOCUMENT-IDENTIFIER: US 5351688 A

TITLE: NMR quadrature detection solenoidal coils

DATE-ISSUED: October 4, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; Randall W.	Bellevue	NE		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	Index	Drawings
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☐ 36. Document ID: US 5210494 A

L30: Entry 36 of 41

File: USPT

May 11, 1993

US-PAT-NO: 5210494

DOCUMENT-IDENTIFIER: US 5210494 A

TITLE: Sample head for nuclear magnetic resonance whole-body tomography or localized in-vivo nuclear magnetic resonance spectroscopy

DATE-ISSUED: May 11, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brunner; Hermann	Schriesheim			DE
Hausser; Karl H.	Heidelberg			DE
Veith; Werner	Heidelberg			DE

US-CL-CURRENT: 324/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☐ 37. Document ID: US 5153517 A

L30: Entry 37 of 41

File: USPT

Oct 6, 1992

US-PAT-NO: 5153517

DOCUMENT-IDENTIFIER: US 5153517 A

TITLE: Surface resonator for a magnetic resonance imaging apparatus

DATE-ISSUED: October 6, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oppelt; Ralph	Weiher			DE
Duerr; Wilhelm	Erlangen			DE
Siebold; Horst	Erlangen			DE

US-CL-CURRENT: 324/322; 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☒ 38. Document ID: US 5144241 A

L30: Entry 38 of 41

File: USPT

Sep 1, 1992

US-PAT-NO: 5144241

DOCUMENT-IDENTIFIER: US 5144241 A

TITLE: Circularly polarizing RF antenna for an MRI apparatus having a C-magnet

DATE-ISSUED: September 1, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oppelt; Ralph	Weiher			DE
Duerr; Wilhelm	Erlangen			DE
Siebold; Horst	Erlangen			DE

US-CL-CURRENT: 324/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Index	Draw
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☒ 39. Document ID: US 4906933 A

L30: Entry 39 of 41

File: USPT

Mar 6, 1990

US-PAT-NO: 4906933

DOCUMENT-IDENTIFIER: US 4906933 A

TITLE: Quadrature surface coil

DATE-ISSUED: March 6, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keren; Hanan	Kfar Saba			IL

US-CL-CURRENT: 324/318; 324/322, 333/219

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☒ 40. Document ID: US 4841248 A

L30: Entry 40 of 41

File: USPT

Jun 20, 1989

US-PAT-NO: 4841248

DOCUMENT-IDENTIFIER: US 4841248 A

TITLE: Transverse field limited localized coil for magnetic resonance imaging

DATE-ISSUED: June 20, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mehdizadeh; Mehrdad	University Hts.	OH		
Patrick; John L.	Solon	OH		
Misic; George J.	Novelty	OH		

US-CL-CURRENT: 324/318; 600/422

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	FIGS	Drawings
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☒ 41. Document ID: US 4680548 A

L30: Entry 41 of 41

File: USPT

Jul 14, 1987

US-PAT-NO: 4680548

DOCUMENT-IDENTIFIER: US 4680548 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Radio frequency field coil for NMR

DATE-ISSUED: July 14, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edelstein; William A.	Schenectady	NY		

Schenck; John F.	Schenectady	NY
Mueller; Otward M.	Ballston Lake	NY
Hayes; Cecil E.	Wauwatosa	WI

US-CL-CURRENT: 324/318; 324/322

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	Links	Drawings
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RADIALLIES	0
RADIALLYS	4
BENT	848480
BENTS	1127
BENDING	564195
BENDINGS	1754
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